OWNER'S MANUAL

⚠ READ BEFORE USE! Model No.: HYPH4601-4 Item No.: 67775

⚠ DANGER

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

⚠ DANGER

If you smell gas:

1.Shut off gas to the appliance.

2.Extinguish any open flames.

3.If odor continues, keep away from the appliance and immediately call your gas supplier or fire department.

⚠ WARNING

For Outdoor Use Only.

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

COMPLIES WITH ANSI Z83.26-2014/CSA 2.37-2014 STANDARDS FOR GAS-FIRED OUTDOOR INFRARED PATIO HEATERS

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

MADE IN CHINA

General Safety Information

This manual contains important information about the assembly, operation and maintenance of this heater.

General safety information is presented in these first few pages and is also located throughout the manual.

Keep this manual for future reference and to educate new users of this product. This manual should be read in conjunction with the labeling on the product.

Safety precautions are essential when any mechanical or propane fueled equipment is involved. These precautions are necessary when using, storing, and servicing. Using this equipment with the respect and caution demanded will reduce the possibilities of personal injury or property damage.

The following symbols shown below are used extensively throughout this manual. Always pay attention to these precautions, as they are essential when using any mechanical or propane fueled equipment.

⚠ DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates an imminently hazardous situation which, if not avoided, may result in minor or moderate personal injury, or property damage.

⚠ WARNING

We cannot foresee every use which may be made of our heaters.

Check with your local fire safety authority if you have questions about heaters use.

Other standards govern the use of fuel gasses and heat producing products for specific uses. Your local authorities can advise you about these.

⚠ DANGER

Failure to comply with the precations and instructions provided with this heater can result in death, serious bodily injury and property loss or damage from hazards of fire, explosion, burn, asphyxiation, and/or carbon monoxide poisoning.

Only persons who can understand and follow the instructions should use or service this heater.

⚠ WARNING

• This product is fueled by propane gas. Propane gas is invisible, odorless, and flammable. An odorrant is normally added to help detect leaks and can be described as a “rotten egg” smell. The odorant can fade over time so leaking gas is not always detectable by smell alone.

• Propane gas is heavier than air and leaking propane will sink to the lowest level possible. It can ignite by ignition sources including matches, lighters, sparks or open flames of any kind many feet away from the original leak. Use only propane gas set up for vapor with draw.

• Propane gas should be stored or used in compliance with local ordinances and codes or with ANSI/NFPA 58. Turn off propane when not in use.

⚠ DANGER

EXPLOSION-FIRE HAZARD

• Keep solid combustibles, such as building materials, paper or cardboard, a safe distance away from the heater as recommended by the instructions.

• Provide adequate clearances around air openings into the combustion chamber.

• Never use the heater in spaces which do or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals.

• During operation, this product can be a source of ignition. Keep heater area clear and free from combustible materials, gasoline, paint thinner, cleaning solvents and other flammable vapors and liquids. Do not use heater in area with high dust content. Minimum heater clearances from combustible material: two(2) feet from the sides & two(2) feet from the top.

• Never store propane near high heat, open flames, pilot lights, direct sunlight, other ignition sources or where temperatures exceed 120°F (49°C).
• Propane is heavier than air and can accumulate in low places. If you smell gas, leave the area immediately.
• Never install or remove propane cylinder while heater is lighted, near flame, pilot light, ignition sources or while heater is hot touch.
• This heater is red hot during use and can ignite flammables too close to the heater. Keep flammables at least 2 feet from sides & 2 feet from top. Keep gasoline and other flammable liquids and vapors well away from heater.
• The propane cylinder must always be stored outdoors in a well ventilated space. Never store propane cylinder in an enclosed area(house, garage, etc.). If heater is to be stored indoors, disconnect the propane cylinder for outdoor storage.

⚠ DANGER

CARBON MONOXIDE HAZARD

• This heater is a combustion appliance. All combustion appliances produce carbon monoxide(CO) during the combustion process. This product is designed to produce extremely minute, non-hazardous amounts of CO if used and maintained in accordance with all warnings and instructions. Do not block air flow into or out of the heater.
• Carbon monoxide(CO) poisoning produces flu-like symptoms, watery eyes, headaches, dizziness, fatigue and possibly death. You can't see it and you can't smell it. It's an invisible killer. If these symptoms are present during operation of this product get fresh air immediately.
• For outdoor use only.
• Never use inside a house, or other unventilated or enclosed areas.
• This heater consumes air(oxygen). Do not use in unventilated or enclosed areas to avoid endangering your life.

⚠ WARNING

BURN HAZARD

• Never leave heater unattended when hot or in use.
• Keep out of reach of children.

⚠ CAUTION

SERVICE SAFETY

• Keep all connections and fittings clean. Make sure propane cylinder valve outlet is clean.
• Inspect hose before use. Replace if there is evidence of abrasion or wear.
• During set up, check all connections and fittings for leaks using soapy water. Never use a flame.
• Use as a heating appliance only. Never alter in any way or use with any device.
• Check entire hose at least annually.

⚠ WARNING

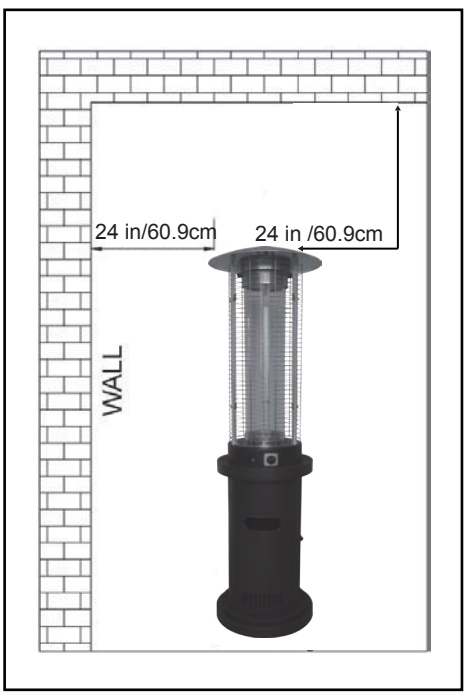
• The maximum gas supply pressure is 250psi.
• Don't store certain materials such as cloth, plastic products ect. under the heater, or it will be subjected to radiant heat and could be seri-ously damaged.
• Do an inspection of the visible portion of the hose before each use of the appliance. If the hose is damaged, the replacement hose assembly shall be that specified by the manufacturer.
• Do the lighting of the heater accroding to the lighting instructions, otherwise may cause injury or property damage.
• Do not use 30 lb propane cylinder for this appliance.

PRECAUTIONS

• Installation and services should only be made by a qualified person.
• Do not use the heater in an explosive atmosphere.
• Before operation, inspect the hose for damage.
• Disconnect LPG cylinder before moving the heater.
• Do not attempt to alter any parts of the heater. Example: Using the heater without reflector or protection guard.
• The appliance shall not be used in basements or below ground level.
• It must always be placed on a solid and level surface.
• Never substitute the regulator. Use only one that is suitable for both appliance category and normal pressure of gas.
• Do not clean the heater with cleaners that are combustible or corrosive.
• Do not paint protection guard, control box or reflector.
• The LPG gas cylinder valve should be turned off when the heater is not in use.
• Do not use the heater when it is raining, and do not let any liquid splash on to the glass tube when the heater is in use.
• Keep children away from the heater, always be careful not to knock over the heater which will break the glass tube and might cause injury.
• Do not move the appliance when in operation.
• After a long break in operation, the gas parts in the control box of the heater and the hose should be inspected for spiders, spider webs or other insects.
• Check the heater immediately if any of the following exists:
1. There is smell of gas.
2. The heater is not effective enough.
3. The burner makes popping noise during use (a slight popping noise is normal when the burner is extinguished after use).
• The hose with regulator assembly should be stored in a safe place to avoid accidental damage.
• Children and adults should be aware of the high surface temperature hazard, and should keep a safe distance away to avoid clothes burning or igniting.
• Young children should be carefully supervised when they are in the working area of the heater.
• Clothing or other flammable material should not be hung from the heater, or placed on or near the heater.
• Do not obstruct the flow of combustion products.
• Keep the ventilation opening of the cylinder enclosure free and clear of debris.
• Do not obstruct the ventilation holes of the cylinder housing.
• Shut off the valve to the gas cylinder or the regulator before moving the appliance.
• The tubing or the fiexible hose must be changed within the prescribed intervals.
• Use only the type of gas and the type of cylinder specified by the manufacturer.
• In case of violent wind, particular attention must be taken against tilting or falling over of the appliance. The manufacturer is not responsible for any damage caused by bad weather.

APPLIANCE STAND AND LOCATION

-The appliance is for outdoor use only. Do not use indoors or in an enclosed area.
-Always maintain adequate clearance from combustible materials, i.e. top 24 in /60.9 cm and sides 24 in /60.9 cm.



PARTS LIST

PART NUMBER	PART NAME	PICTURE	QUANTITY	DESCRIPTION
A	Tank Housing		1	
B	Burner		1	
C	Glass Tube		1	
D	Glass Tube Ring		1	
E	Mesh Guard		3	
F	Upper Supporter		3	
G	Upper Combination		1	
H	Tank Housing Supporter		1	
I	Wheel		1	
J	Handle		1	
K	M5x12 screw		6	Attached into the upper supporter
L	M4x10 screw		3	Attached into the burner cover
M	M5x12 screw		6	in hardware packing

PARTS LIST

PART NUMBER	PART NAME	PICTURE	QUANTITY	DESCRIPTION
N	M5 lock nut		4	in hardware packing
O	M8x16 screw		3	1 in hardware packing, 2 screwed into wheel
P	M8 lock nut		2	screwed into wheel
Q	M6 nuts		1	assembled into handle
R	M6 washer		1	assembled into handle
S	M6x12 screw		6	in hardware packing
T	M6 lock nut		6	in hardware packing
U	Anchoring Arm		3	in hardware packing
V	Anchoring Nut		3	in hardware packing
W	Wrench		1	in hardware packing

LEAKAGE TEST

Gas connections on the appliance are leak tested at the factory prior to shipment. Possible mishandling of the appliance during the shipment process might contribute to product integrity as a whole. A complete gas leakage test must be performed again at the installation site. Please follow the procedure below for leakage test.

- Make a soap solution of one part liquid detergent and one part water. The soap solution can be applied with spray bottle, brush or rag. Soap bubbles will appear where a leak is present.
- Make sure the control knob is in the “OFF” position (full disk = ●) on the control panel.
- Turn on the gas supply and check for bubbles from the hoses and connections. Presence of bubbles means that a leak path is present.
- If a leak is present, turn OFF the gas supply immediately, tighten any leaking fittings carefully, turn gas on again and recheck.
- Never leak test while smoking, or near an open flame.

INSTALLATION

Important safety requirements:

THIS APPLIANCE IS FOR OUTDOOR USE ONLY

1. This appliance shall not be installed or used indoors, in buildings, garages or any other enclosed area.
2. DO NOT place articles on or against this appliance.
3. DO NOT use or store flammable materials near this appliance.
4. DO NOT operate this appliance unless it is fully assembled with reflector and protection guards in place.
5. Installation and repair should be done by a qualified service person. The appliance must be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative that the control compartment, burners and circulating air passages of the heater and light be kept clean.

HEATER ASSEMBLY

Step 1:Unscrew the handle nuts (Q)and washer(R) and assemble the handle into tank housing(A).

Step 2: Unscrew the wheel screws (O) and nuts (P) and assemble the wheel (I) into tank housing base.

Step 3: Use the M8x16 screw (O) and M5x12 screw(M) from the hardware packing to attach the tank housing supporter(H) into the base hole and the tank housing and don’t fasten them.

Step 4: Attach the burner(B) into the tank housing top and make the control knob faced to the door and hole to hole, use 4pcs M5x12 screws(M) and 4pcs M5 nuts(N),fasten them well.

4-4

4-5

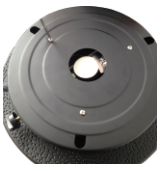
Step 5: Use 1pc M5x12 screw (M) to fasten the tank housing supporter.

5-1

5-2

Step 6: Screw off 3pcs M4x10 screws(L) from the burner cover and attach the glass tube ring(D) into it.

6-1



6-2

6-3

Step 7: Screw off all M5x12 screws(K) from the upper supporter(F) first and then put through the burner cover to the bottom and use screws to fasten them.

Caution: **Keep the hook** upwards.

7-1

7-2

7-3

7-4

Step 8: Put the glass tube(C) into the glass tube ring.

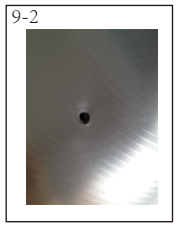
8-1

8-2

Step 9: Put the upper combination(G) into the supporter and glass tube to make sure the three holes match **up** and use screws (from Step 7) to fasten them.

9-1

9-2



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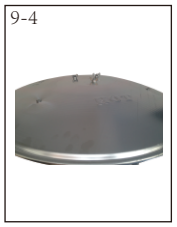


Step 10: Assemble three mesh guards(E) into the upper supporter hook.
Caution: **Ensure t**he mesh guard **is in the correct** position. **(10-3)**

10-1

10-2

10-3

Step 11: Assemble the anchoring arm(U) with M6x12 screws(S) and M6 nuts(T) into the base and use the anchoring nut(V) to fasten the product into the ground. Installation process is completed.

11-1

11-2

11-3

Connect Hose & Regulator to Cylinder

Step 1 - Gas Cylinder Required

- You must provide propane gas and propane cylinder. Use a standard 20lb propane cylinder only.
- Use this heater only with a propane vapor withdrawal supply system. See chapter 5 of the Standard for Storage and Handling of Liquefied Petroleum Gas, ANSI/ NFPA 58. Your local library or fire department will have this book.
- Maximum supply pressure of 250 psi. A minimum supply pressure of 25 psi is required for the purpose of input adjustment for propane gas.
- The pressure regulator and hose assembly supplied with the appliance must be used. Replacement pressure regulators and hose assemblies must be those specified by the appliance manufacturer.
- A dented, rusted or damaged propane cylinder may be hazardous and should be checked by your cylinder supplier. Never use a propane cylinder with a damaged valve connection.
- The propane cylinder must be constructed and marked in accordance with the specifications for LP gas cylinders of the U.S. Department of Transportation(DOT) or the Standard for Cylinder, Spheres & Tubes for transportation of Dangerous Goods & Commission, CAN/CSA-B339, as applicable.
- Never connect an unregulated propane cylinder to the heater.
- The cylinder must include a collar to protect the cylinder valve.
- Provided with a listed overfilling prevention device.
- Provided with a cylinder connection device compatible with the connection for the appliance.
- Do not store a spare LP-Gas cylinder under or near this appliance.
- A cylinder must be stored outdoors in a well-ventilated area out of reach of children. A disconnected cylinder must have dust caps tightly installed and must not be stored in a building, garage or any other enclosed area.
- Never fill the cylinder beyond 80 percent full.
- Place the dust cap on the cylinder valve outlet whenever the cylinder is not in use. Only install the type of dust cap on the cylinder valve that is provided with the cylinder valve. Other types of caps or plugs may result in leakage of propane.

Figure 1

20LB Propane Cylinder

Step 2 – Install Cylinder on the base.

- Put the gas cylinder inside the base, secure the cylinder location brackets to the base and buckle the gas cylinder with belt by adjusting the length. **Please see Figure 2**

Step 3 –Connect the Regulator to the gas cylinder valve.

- Turn the cylinder valve clockwise to close the gas supply on the gas cylinder. **See Figure 3**
- Screw Regulator Coupling clockwise by hand only. Make sure it is fastened. **See Figure** 3

  The cylinder connection device is CGA No. 791 Connection.

WARNING: Do not over bend the tube, and do not let the tube touch a hot part or sharp edge.

Figure 2

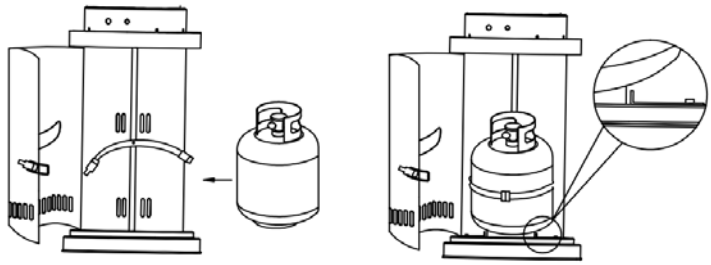
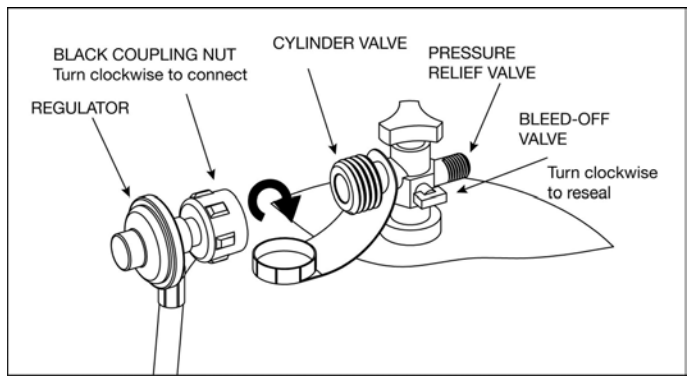


Figure 3



Check for leaks

Warning:

Perform leak test outdoors only.
Never leak test when smoking.
Do not use a flame to check for leaks.

Your Patio Heater has been checked at all factory connections for leaks. To check the connection of the regulator/cylinder: **See Figure 4**

- Make leak solution by mixing 1 part liquid dish soap and 3 parts water.
- Brush several drops (or use spray bottle) of the solution onto the gas hose/regulator and regulator/cylinder connection.
- Turn on gas. Inspect the connections and look for bubbles.
- If no bubbles appear, the connection is safe.
- If bubbles appear, there is a leak, loosen and re-tighten this connection.

NOTE:
Whenever gas connections are loosened or removed, you must perform a complete leak test.

Figure 4

Regulator / Cylinder Connection

OPERATION

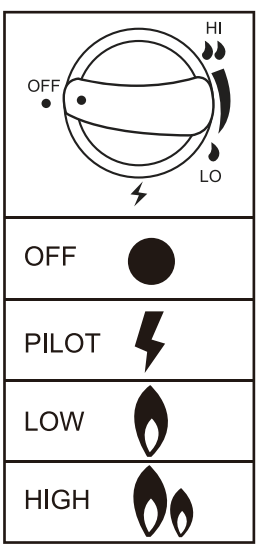
Warning:
Always test the hose for leaks with soapy water at both of the connections.

Warning:
- Never use the heater while it is raining, the glass tube can break when it is suddenly met with water.
- Always turn off the heater while it is raining.
- Never splash any liquid on to the glass tube when the heater is working.
- The glass tube will be extremely hot when it is working, never try to touch it and keep children away from the heater.
- Always ensure the heater stands firm. The glass tube may break if the heater falls over.
- Never use the heater if the glass tube has any cracks.

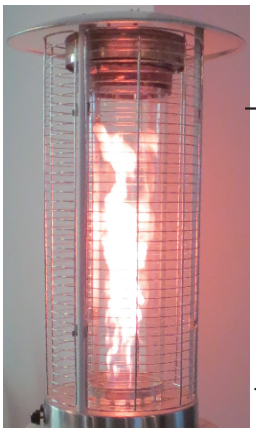
LIGHTING INSTRUCTIONS

1. Check and ensure an AA battery (not included) is inside the ignition chamber and has power. Ensure the anode(+) faces outside.
2. Ensure the control knob is OFF,slowly open the gas cylinder valve.
3. Press and turn the control knob to PILOT position and hold in for 1 full minute.

4.Push the igniter to generate spark while keeping control knob in depressed position.
5. Check for pilot flame through glass tube. If pilot does not light, turn control knob to 'OFF' position wait two minutes minimum and try again from step 2. Several attempts may be necessary.
6. If the pilot lights, keep control knob pressed for 30 seconds longer then turn the control knob to 'LOW'.
7. For maximum heat turn control knob to 'HIGH'.
8. To turn heater off, turn control knob to 'OFF'.
9. Close the valve of the gas cylinder or the regulator after use.



WARNING: If lighting steps are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.



Observe flame height when lit: Flame should possibly be a yellow/ blue color between 20 to 28 inches high.

Flame height

CLEANING/MAINTENANCE/STORAGE

CLEANING AND MAINTENANCE:

- To enjoy outstanding performance of your heater for years, make sure to perform the following maintenance activities on a regular basis:
- Keep exterior surfaces clean.
- Use warm soapy water for cleaning. Never use flammable, corrosive or abrasive cleaners.
- While washing your unit, be sure to keep the area around the burner and pilot assembly dry at all time. If the gas control is exposed to water in any way,do NOT try to use it. It must be replaced.
- After a long break from operation, the unit should be inspected for spiders, spider webs or other insects.
- Air flow must be unobstructed. Keep controls. burner, and circulating air passageways clean. Signs of possible blockage include:
- Heater does NOT reach the desired temperature
- Heater makes popping noises.
- Spiders and insects can nest in burner or orifices.

This dangerous condition can damage heater and render it unsafe for use. Clean burner holes by using a heavy-duty pipe cleaner.
Compressed air may help clear away smaller particles.

- Carbon deposits may create a fire hazard. Clean reflector and glass tube inside with soapy water if any carbon deposits develop. Always be careful when cleaning the glass tube.
- Keep the appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- Don't obstruct the flow of combustion and ventilation air. Keep the ventilation openings of cylinder enclosure free and clear from debris.
- Cleaning the appliance, including special surfaces, with recommended cleaning agents, if necessary.

● This appliance shall be used only in a well-ventilated space and shall not be used in a building, garage or any other enclosed area.

● This appliance may be installed with shelter no more inclusive than:

1. With walls on all sides, but with no overhead cover.
2. Within a partial enclosure which includes an overhead cover and no more than two side walls. These side walls may be parallel, as in a breeze-way, or at right angles to each other.
3. Within a partial enclosure which includes an overhead cover and three side walls, as long as 30 percent or more of horizontal periphery of the enclosure is permanently open.

STORAGE:

Between uses:

● Turn the control knob to “OFF” position.
● Turn LPG cylinder to “OFF” position.
● Store heater upright in an area sheltered away from weather conditions (such as rain, sleet, hail, snow and wind).
● If desired, cover heater to protect exterior surfaces and to help prevent dust and debris collecting in air passages.

During periods of extended inactivity or when transporting:

● Turn the control knob to “OFF” position.
● Disconnect LPG Cylinder and move to a secure well-ventilated location outdoors.
DO NOT store in a location that will exceed 120 °F /49 °C .
● Store heater upright in an area sheltered away from weather conditions (such as rain, sleet, hail, snow and wind).
● If desired, cover heater to protect exterior surfaces and to help prevent dust and debris collecting in air passages.

If you need a replacement part, please call BOND toll free# 1-866-771-BOND(2663) or better to expedite your request feel free to email us customer.service@bondmfg.com .

WARNING

FOR YOUR SAFETY:
● DO NOT touch or move heater for at least 45 minutes after use.
● Allow all burner elements to cool before touching.

NOTE

● In a salt-air environment (such as near an ocean) corrosion occurs more quickly than normal.
● Frequently check for corroded areas and repair them promptly.
● Wait until heater is cool before covering.

Troubleshooting

PROBLEM	PROBABLE CAUSE	SOLUTION
Pilot will not light	Gas valve may be OFF	Turn the gas valve ON
	LPG cylinder empty	Refill LPG cylinder
	Orifice blocked	Clean or replace Orifice
	Air in supply system	Purge air from lines
	Loose connection	Check all fittings
Pilot will not stay on	Debris around pilot	Clean dirty area
	Loose connection	Tighten connection
	Thermocouple bad	Replace Thermocouple
	Gas leak in line	Check connections
	Lack of gas pressure	LPG cylinder is near empty
Burner will not light	Gas pressure is low	LPG cylinder is near empty
	Orifice blocked	Remove, clean and replace
	Control knob not ON	Turn knob to ON
	Thermocouple bad	Replace Thermocouple
	Pilot light assembly bent or not in correct location.	Place pilot light in correct position and retry.

IF YOU HAVE QUESTIONS OR CONCERNS
PLEASE CALL BOND TOLL FREE #
1-866-771-BOND(2663) OR TO BETTER
EXPEDITE YOUR REQUEST FEEL FREE TO EMAIL US
customer.service@bondmfg.com
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